10/507309

- L9 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
- 2002:816739 Document No. 138:55905 Asymmetric Intramolecular [3 + 2]
 Cycloaddition Reactions of Acylhydrazones/Olefins Using a Chiral Zirconium
 Catalyst. Kobayashi, Shu; Shimizu, Haruka; Yamashita, Yasuhiro; Ishitani,
 Haruro; Kobayashi, Jun (Graduate School of Pharmaceutical Sciences,
 University of Tokyo, Hongo, KY, 113-0033, USA). Journal of the American
 Chemical Society, 124(46), 13678-13679 (English) 2002. CODEN: JACSAT.
 ISSN: 0002-7863. OTHER SOURCES: CASREACT 138:55905. Publisher: American
 Chemical Society.
- AB Catalytic asym. intramol. [3 + 2] cycloaddn. of hydrazone/olefins has been attained. In the presence of a chiral zirconium catalyst prepared from zirconium alkoxide and a BINOL derivative, the desired pyrazolidine derivs. were obtained in high yields with high selectivities. The products were easily converted to 1,3-diamine or β -aminonitrile derivs. by N-N bond cleavage.
- L9 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

 1981:462065 Document No. 95:62065 (3++2) Intramolecular cationic cycloadditions and 1,3-dipolar cycloadditions of phenylhydrazones. Fouchet, B.; Joucla, M.; Hamelin, J. (Dep. Phys. Crist. Chim. Struct., Univ. Rennes, Rennes, 35042, Fr.). Tetrahedron Letters, 22(14), 1333-6 (French) 1981. CODEN: TELEAY. ISSN: 0040-4039. OTHER SOURCES: CASREACT 95:62065.

GI

AB In acidic medium, alkenyl phenylhydrazones cyclized to give fused ring systems, probably by a (3+ + 2) cationic cycloaddn. E.g.,

Me2C:CH(CH2)2CHMeCH2CH:NNHPh (AcOH, H2SO4) gave an 80:20 mixture of I(R = H)

(II) and I (R2 = bond) (III). II was rapidly oxidized to III and could not be obtained pure. In some cases, e.g., the reaction of citral, the species corresponding to II could not be isolated.

=> d l1 L1 HAS NO ANSWERS

L1 STR

VAR G1=C/O/S/N

NODE ATTRIBUTES:

HCOUNT IS M1 AT 1
HCOUNT IS E2 AT 4
HCOUNT IS E2 AT 7
DEFAULT MLEVEL IS ATOM .
DEFAULT ECLEVEL IS LIMITED

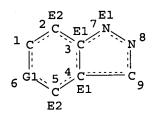
GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE

```
=> d 14
L4 HAS NO ANSWERS
L4 STR
```



VAR G1=C/S/N/O

NODE ATTRIBUTES:

HCOUNT IS E2 AT 2
HCOUNT IS E1 AT 3
HCOUNT IS E1 AT 4
HCOUNT IS E2 AT 5
HCOUNT IS E1 AT 7
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

=> d his

(FILE 'HOME' ENTERED AT 13:18:02 ON 09 JUL 2007)

FILE 'REGISTRY' ENTERED AT 13:20:46 ON 09 JUL 2007
L1 STR
L2 3 S L1

L3 128 S L1 FUL L4 STR L5 0 S L4 L6 58 S L4 FUL

FILE 'CAPLUS' ENTERED AT 13:29:13 ON 09 JUL 2007

L7 133 S L3 L8 33 S L6

L9 5 S L7 AND L8

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